

ON LEPIDOPTERA FROM THE ISLANDS OF CERAM
(SERAN), BURU, BALI, AND MISOL.

By LORD ROTHSCHILD, F.R.S., PH.D.

(Continued from Vol. XXII. p. 144.)

HETEROCERA

There are 104 species of *Heterocera* from Ceram, 2 from Buru, 8 from Bali, and 18 from Misol; 2 species are common to Ceram and Buru, and 2 to Ceram and Misol, so that the total number of species of *Heterocera* in the collection is 128.

AMATIDAE

287. *Ceryx evar* (Pag.)

Syntomis evar Pagenstecher, *Jahrb. Nass. Ver. Nat.* xxxix. p. 119 (1886) (Amboina).

1 ♂, Kanike, North Ceram, 600 m., 1912; 1 ♀, Manusela, Central Ceram, 650 m., 1912.

ARCTIADAE

Lithosianae

288. *Caprimima quadripuncta* sp. nov.

♀. Antennae, head, and thorax sooty black; abdomen above black, laterally blackish chocolate, anal tuft white.

Forewing: sooty black; a large white quadrate patch begins one-quarter from base, and from inner margin to cell occupies nearly one-half of wing, it is sharply and angularly constricted distally two-fifths of its breadth and stops short at subcostal nervure; a postcellular white spot, a postmedian maroon-chestnut patch from subcostal to above vein 1, a white subterminal spot from vein 4 to just under vein 6.

Hindwing: basal three-fifths semihyaline white, outer two-fifths sooty black.

Length of forewing: 10 mm.

Expanse: 22 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

289. *Caprimima rufobasalis* sp. nov.

♀. Antennae, head, thorax, and abdomen sooty black.

Forewing: costa black except where white median band reaches it, basal one-quarter chocolate red, broadly edged with black distally, and an irregularly excised pure white median band 5 mm. wide in widest part above vein 1, and 2 mm. wide at costa, outer half irregularly obliquely chocolate-red bordered with sooty black.

Hindwing: base and outer two-fifths sooty black, rest semihyaline white.

Length of forewing: 12 mm.

Expanse: 27 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

290. *Miltochrista apuncta* sp. nov.

♀. Antennae basal one-fifth scarlet, rest buffy yellow; head and thorax scarlet; abdomen buff tinged here and there with scarlet.

Forewing: scarlet intranervular spaces more or less yellow.

Hindwing: semivitreous buff suffused with pale scarlet.

Length of forewing: 13 mm.

Expanse: 30 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

Arctianae291. *Diacrisia niceta niceta* (Stoll)

Phalaena niceta Stoll, *Pap. Exot.* iv. pt. xxxi. p. 151. pl. cccxviii. f. C. (1781) (Amboina).

1 ♀, Manusela, Central Ceram, 650 m., 1912.

292. *Diacrisia niceta mysolica* subsp. nov.

♀. Differs from *n. niceta* in the absolute absence of black spots from, and the cinnamon-buff colour of, the forewing.

1 ♀, Misol.

AGARISTIDAE293. *Immetalia saturata doleschallii* (Feld.)

Agarista doleschallii Felder, *Reise Novara*, pl. 107, ff. 2, 3 (1874) (Amboina).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

294. *Ophthalmis lincea lincea* (Cram.)

Phalaena lincea Cramer, *Pap. Exot.* iii. pt. xix. p. 61, pl. cccxxviii. f. B. (1779) (Amboina).

2 ♂♂, 1 ♀, Manusela, Central Ceram, 650 m., 1912.

295. *Ophthalmis privata* (Walk.)

Agarista privata Walker, *List Lepid. Ins. Brit. Mus.* xxxi. p. 48 (1864) (Ceram).

3 ♂♂, 3 ♀♀, Manusela, Central Ceram, 650 m., 1912.

NOCTUIDAE**Hadeninae**296. *Cirphis decisissima* (Walk.)

Leucania decisissima Walker, *List Lepid. Ins. Brit. Mus.* xxxii. p. 624 (1865) (Sikkim).

2 ♂♂, Manusela, Central Ceram, 650 m., 1912.

297. *Cirphis metargyria* sp. nov.

♂. Differs from *cryptargyria* B.-Baker in the darker abdomen, in having costal area of forewing to just before apex cinnamon-buff, in having the disco-terminal portion of wing cinnamon-buff, not whitish, and the pale band from apex

much straighter. Underside of hindwing entirely metallic pale gold ; terminal and basal one-fifth of forewing and costa cinnamon-brown, rest golden.

Length of forewing : 21 mm.

Expanse : 48 mm.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

Acronytninae

298. *Sesamia griseascens* Warr.

Sesamia griseascens Warren, *Nor. Zool.* xviii. p. 148. No. 22 (1911) (New Guinea).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

Catocalinae

299. *Erebus leucotaenia* (Guen.)

Nyctipao leucotaenia Guenée, *Hist. Nat. Ins. Sp. Gén. Lép.* vii. Noct. iii. p. 184 (1852) (Java !?).

One ♀ has almost lost all the white, *i.e.* the entire median band. Specimens with **no white** at all are ab. *obscura* B. Baker, so I propose for the present specimen the name ab. **subobscura** ab. nov.

3 ♂♂, and 1 ♂ and 1 ♀ in cop., Manusela, Central Ceram, 650 m., 1912 ; 2 ♂♂, Waihai, North Ceram ; 1 ♀, Sukaradja, North Ceram ; 1 ♀, Ceram.

300. *Speiredonia remota* (Feld.)

Spirama remota Felder, *Sitzb. Akad. Wiss. Wien*, xliii. p. 43 (1861) (Amboina).

3 ♀♀, Manusela, Central Ceram, 650 m., 1912.

301. *Dermoleipa juno* (Daln.)

Noctua juno Dalman, *Anal. Entom.* p. 52 (1823) (hab.?).

2 ♂♂, Manusela, Central Ceram, 650 m., 1912.

302. *Chalciope cephise* (Cram.)

Phalaena cephise Cramer, *Pap. Ecot.* iii. part xix. p. 59. t. ccxxvii. f. C. (1779) (India Or.).

3 ♀♀, Manusela, Central Ceram, 650 m., 1912.

303. *Mocis undata* (Fabr.)

Noctua undata Fabricius, *Syst. Ent.* p. 600 (1775) (India Or.).

1 ♀, Waihai, North Ceram.

304. *Pterocyclophora hampsoni* Semp.

Pterocyclophora hampsoni Semper, *Reise Phil. Schmett.* ii. p. 541. pl. 60 f. 16 (1900) (Luzon).

1 ♀, Manusela, North Ceram, 650 m., 1912.

305. *Anisoneura zeuzeroides* Guen.

Anisoneura zeuzeroides Guenée, *Hist. Nat. Ins. Sp. Gén. Lép.* vii. Noct. iii. p. 162 (1852) (hab.?).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

Noctuinae

306. *Claterna cydonia* (Cram.)

Phalaena cydonia Cramer, *Pap. Exot.* i. part ii. p. 34. pl. xxii. f. F. (1775) (Surinam).

1 ♂, Ceram.

307. *Azazia bolinoides* (Guen.)

Hypospila bolinoides Guenée, *Hist. Nat. Ins. Sp. Gén. Léop.* vii. Noct. iii. p. 358 (1852) (Java).

1 ♀, Manusela, Central Ceram, 650 m., 1912.

308. *Oglaa rufaurantia* sp. nov.

♀. Antennae amber-brown, head cream-buff; thorax, tegulae cream-buff, patagia and rest of thorax cinnamon-mauve-brown; abdomen dark wood-grey-brown.

Forewing: cinnamon-orange-brown, washed on basal half with mauve; an antemedian zigzag band of brown almost resolved into a band of spots, a black dot in cell just beyond this line; a large postcellular sooty patch from which proceeds a brown and pale-cinnamon double line to inner margin, a curved brown line of spots runs from costa round edge of postcellular patch and joins double line below it; a subapical spot, a subterminal patch and fringe sooty black.

Hindwing: dark wood-grey; costa whitish, terminal line buff.

Length of forewing: 15 mm.

Expanse: 34 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

309. *Catephia leucomelas* (Linn.)

Phalaena leucomelas Linnaeus, *Syst. Nat.* ed. x. p. 518 (1758) (Europe).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

310. *Hulodes caranea* (Cram.)

Phalaena caranea Cramer, *Pap. Exot.* iii. pt. xxiii. p. 140. pl. cclxix. ff. E. F. (1780) (Batavia).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

311. *Ischyja manlia* (Cram.)?

Phalaena manlia Cramer, *Pap. Exot.* i. pt. viii. p. 144. pl. xcii. f. A. (1776) (Côte de Coromandel).

Hitherto at least three species have been confused under this name, viz. the Indian and Palaearctic true *manlia*, the Sumatra species recently separated, and the form which reaches in varying phases from the Moluccas to the Bismarek Archipelago. Whether the latter is divisible into several species or subspecies I have not yet been able to make out, but I hope in the second part of my article on the Lepidoptera from the Admiralty, Vulean, and Dampier Islands to settle the matter definitely. I therefore at present place the pair sent by Herr Stresemann under the collective name *manlia* Cram.

1 ♂, Kanike, North Ceram, 600 m.; 1 ♀, Manusela, Central Ceram, 650 m., 1912.

Hypeninae312. **Hypena stygiana** Butl.

Hypena stygiana Butler, *Illust. Lep. Het. Brit. Mus.* ii. p. 55. pl. xxxviii. f. 6 (1878) (Yokohama).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

313. **Hypena caerulealis** Walk.

Hypena caerulealis Walker, *List Lepid. Ins. Brit. Mus.* xxxiv. p. 1142 (1865) (Moreton Bay, Swan River).

1 ♀, Danau Bratan, Bali, 2500 ft., January 1911.

314. **Hypena obstupidalis** Swinh.

Hypena obstupidalis Swinhoe, *Proc. Zool. Soc. Lond.* 1885, p. 471. pl. xxviii. f. 7 (India).

1 ♂, Kintamani, Bali, 4000 ft., February—March 1911.

315. **Hypena stresemanni** sp. nov.

♂♀. Antennae yellowish grey; palpi dark grey; head white; thorax and abdomen yellowish grey. Both wings pale greyish buff gradually deepening into ash-grey on outer third of wings; costa of forewing brownish grey.

Length of forewing: ♂ 17 mm., ♀ 18 mm.

Expanse: ♂ 38 mm., ♀ 40 mm.

1 ♂, 1 ♀, Kintamani, Bali, 4000 ft., February—March 1911 (♂ type); 3 ♂♂, Danau Bratan, Bali, 2500 ft., January 1911.

316. **Hypena cirphoides** sp. nov.

♀. The forewing is strigillated and coloured exactly like several species of *Cirphis*. Antennae greyish brown; head and thorax dark wood-brown; abdomen paler wood-brown.

Forewing: wood brown nervures and some striae paler; basal third below cell, a median band through cell to outer quarter of wing, and outer quarter of wing sooty wood-brown.

Hindwing: greyish wood-brown.

Length of forewing: 17 mm.

Expanse: 39 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

LYMANTRIIDAE317. **Redoa submarginata** Walk.

Redoa submarginata Walker, *List Lepid. Ins. Brit. Mus.* iv. p. 826 (1855) (Sylhet).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

318. **Euproctis ateralbus** sp. nov.

♀. Antennae sooty black; head buffy orange; thorax and abdomen sooty black, anal tuft greenish buff.

Forewing: deep sooty black; a very large apical patch pure white, a pure white spot above vein 2, and some white scaling above vein 3.

Hindwing: deep sooty black, three larger and one very small white sub-marginal spots between veins 2 and 6.

Length of forewing: 26 mm.

Expanse: 57 mm.

3 ♀♀, Mannsela, Central Ceram, 650 m., 1912.

319. *Lymantria lunata* (Cram.)

Phalaena lunata Cramer, *Pap. Esot.* iv. pt. xxxi. p. 154. pl. cclxix. f. C. (1781) (Amboina).

1 ♂, Wahai, North Ceram; 1 ♂, Manusela, Central Ceram, 650 m., 1912.

320. *Lymantria curvifera* (Walk.)

Pegella curvifera Walker, *List Lepid. Ins. Brit. Mus.* xxxv. p. 192 (1866) (Philippines).

1 ♂, Misol.

HYPSIDAE

321. *Azota heliconia heliconia* (Linn.)

Phalaena heliconia Linnaeus, *Syst. Nat.* ed. x. p. 511 (1758) (Amboina).

1 ♂, Wahai, North Ceram; 1 ♂, Manusela, Central Ceram, 650 m., 1912.

322. *Azota heliconia doryca* (Boisd.)

Aganais doryca Boisduval, *Voy. Astrolabe Lépid.* p. 251. No. 4 (1832) (New Guinea, Dorey).

2 ♂♂, Misol.

323. *Azota orbona significans* (Walk.)

Hypsa significans Walker, *List Lepid. Ins. Brit. Mus.* xxxi. p. 815 (1864) (Aru).

1 ♀, Misol.

324. *Deilemera aeres* (Boisd.)

Leptosoma aeres Boisduval, *Voy. Astrolabe Lépid.* p. 198. No. 2 (1832) (Buru).

1 ♂, Mgesawain, Central Buru, 800 m., 1 ♂, 1 ♀, Manusela, Central Ceram, 600 m., 1912.

325. *Deilemera stresemanni* sp. nov.

♂. Antennae heavily pectinated, white, pectinations black; head and thorax orange-golden spotted with black; abdomen orange-golden ringed with black.

Forewing: semihyaline cinnamon-ash-grey; a white streak from base two-fifths of distance to termen along fold above vein 1, an oblique white median band.

Hindwing: semihyaline basal two-thirds white, outer one-third and costal area above veins 6 and 7 cinnamon-ash-grey.

Length of forewing: 23 mm.

Expanse: 50 mm.

1 ♂, Mannsela, Central Ceram, 650 m., 1912

326. *Deilemera coleta* (Cram.)

Phalaena coleta Cramer, *Pap. Exot.* iv. part xxxi. p. 153. pl. cccclxviii. f. H. (1781) (Amboina).

5 ♂♂, 17 ♀♀, Manusela, Central Ceram, 650 m., 1912.

327. *Deilemera mundipicta* (Walk.)

Nyctemera mundipicta Walker, *Journ. Linn. Soc. Lond. Zool.* iii. p. 184 (1859) (Singapore).

4 ♂♂, 8 ♀♀, Manusela, Central Ceram, 650 m., 1912.

["Common on the ground in tall virgin forest."—E. S.]

328. *Deilemera luctuosa* (Voll.)

Leptosoma luctuosum Vollenhufen, *Tijds. Dierk.* i. p. 42. No. 8 (1863) (Batchian).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

329. *Deilemera pellex* (Linn.)

Phalaena pellex Linnaeus, *Syst. Nat.* i. p. 510. No. 75. (1758) (in Indiis).

1 ♂, Wahai, North Ceram; 1 ♀, Manusela, Central Ceram.

330. *Deilemera nonapicalis* sp. nov.

♀. Very similar to *semperi*, but differs in not having white apex to hindwing.

Length of forewing: 26–28 mm.

Expanse: 57–61 mm.

2 ♀♀, Wahai, North Ceram.

331. *Deilemera absurdum* (Swinh.)

Leptosoma absurdum Swinhoe, *Cat. East. Lepid. Oxf.* part i. p. 143. No. 665 (1892) (Salawatti).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

332. *Deilemera absurdum latimargo* Rothschild.

Deilemera absurdum latimargo Rothschild, *Lepid. Brit. Orn. Union and Woll. Exped.* p. 78. No. 408 (1915) (Snow Mts.).

The single ♂ sent by Dr. Tauern from Misol has the dark distal portion of the hindwing a fraction narrower than the narrowest among Dr. Wollaston's 7 ♀♀; but as these vary between 4.5 and 6 mm., while the ♂ in question has this border 4 mm., I do not think that it could be separated.

1 ♂, Misol.

333. *Deilemera absurdum strictifascia* subsp. nov.

♀. Differs from *a. absurdum* in the absence of the orange head, and in the oblique white fascia on the forewing being only half as wide.

1 ♀, Danau Bratan, Bali, 2500 ft., January 1911.

334. *Deilemera immitans* sp. nov.

♂♀. Very much like a small example of *absurdum*, but much darker, and anal tuft almost black.

Forewing: blackish sooty brown; only vein 1 marked in white, no white streak in cell, white oblique patch much smaller and suffused with brown.

Dark border of *hindwing* much blacker and very sharply defined.

Length of forewing: *immitans*, ♂ ♀ 20 mm.

Expanse: 44 mm.

Length of forewing: *absurdum*, ♀ 23.5 mm.

Expanse: 51 mm.

7 ♂♂, 2 ♀♀, Mannsela, Central Ceram, 650 m., 1912.

SPHINGIDAE

Acherontiinae

335. *Herse luctifera* (Walk.)

Macrosila luctifera Walker, *List Lepid. Ins. Brit. Mus.* xxxi. p. 35 (1864) (Moluccas).

1 ♂, Mannsela, Central Ceram, 650 m., 1912.

336. *Meganoton rufescens thielei* Huwe

Meganoton thielei Huwe, *Berl. Entom. Zeitschr.* 1. p. 316. No. 1. t. 6. f. 1 (1906) (Sumatra).

1 ♂, Mannsela, Central Ceram, 650 m., 1912.

Philampelinae

337. *Macroglossum ungues* Rothschild & Jord.

Macroglossum ungues Rothschild & Jordan, *Rev. Sphingidae* p. 643. No. 581. t. 3. f. 7 (1903) (Burn, Amboina, Java, etc.).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

338. *Macroglossum corythus pylene* Feld.

Macroglossa pylene Felder, *Sitz.-Ber. Akad. Wiss. Wien*, xliii. p. 29 (1861) (Amboina).

1 ♀, Mannsela, Central Ceram, 650 m., 1912.

EUPTEROTIDAE

339. *Tagora pallida asclepiades* (Feld.)

Sphingognatha asclepiades Felder, *Reise Novara, Lepid.* t. 94. f. 1 (1874) (Sumatra).

1 ♂, Danan Bratan, Bali, 2500 ft., January 1911.

GEOMETRIDAE

Geometrinae

340. *Ectropis boarmiodes* sp. nov.

♀. Antennae dark brown, head dirty cream; thorax, tegulae basal portion pale yellowish brown, rest white; rest of thorax and abdomen whitish grey freckled with pale brown.

Forewing: greyish white strigillated with brownish wood-grey; two black-brown spots on basal and two pale-brown spots on outer half of costa, two

interrupted antemedian irregular bands pale brown, two postmedian pale-brown bands of coalescent sagittate spots.

Hindwing: greyish white, freckled and strigillated with brownish wood-grey; antemedian, median, and postmedian bands zigzag and pale brown, a blackish median stigma.

Length of forewing: 14 mm.

Expanse: 32 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

341. *Cypra delicatula* Boisd.

Cypra delicatula Boisdual, *Voy. Astrolabe, Lép.* p. 201. pl. 1. f. 3 (1832) (New Guinea).

1 ♀, Misol; 5 ♂♂, 8 ♀♀, Waihai, North Ceram; 1 ♂, 4 ♀♀, Manusela, Central Ceram, 650 m., 1912.

342. *Abraxas albiquadrata* (Warr.)

Potera albiquadrata Warren, *Nov. Zool.* iv. p. 89 (1897) (Batchian).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

343. *Abraxas stresemanni* sp. nov.

♂. Antennae sooty brown-black; head black, a minute orange point on vertex; thorax black, collar, margins of tegulae, and patagia and hinder edge of thorax orange; abdomen black, sides of abdomen variegated with orange, sides and undersurface of anal tuft orange.

Forewing: white; basal one-fifth sooty black, with white dot on costa and orange marks in the black area; costal area, costal quarter of cell, and outer one-fifth of wing sooty black, a black discocellular stigma, a subterminal band of white patches.

Hindwing: white; basal one-sixth sooty black with two white spots, outer one-sixth sooty black with subterminal band of white patches.

Length of forewing: 29 mm.

Expanse: 63 mm.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

344. *Craspedosis sobria* (Walk.)

Celereia sobria Walker, *List Lepid. Ins. Brit. Mus.* xxxi. p. 164 (1864) (Aru).

1 ♂, Manusela, Central Ceram, 650 m., 1912; 1 ♀, Kanike, North Ceram, 600 m., 1912.

345. *Bursada tricinctaria* (Linn.)

Phalœna tricinctaria Linnaeus, *Syst. Nat.* ed. x. p. 523 (1758) (Amboina).

1 ♂, 1 ♀, Manusela, Central Ceram, 650 m., 1912.

346. *Bursadopsis basalis abasalis* subsp. nov.

♀. Differs from *b. basalis* Warr. in lacking the yellow on the thorax and in the absence of the orange subbasal patch on the forewing.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

347. *Milionia glauca* (Cram.)

Phalaena glauca Cramer, *Pap. Erot.* iv. pt. xxxi. p. 152. pl. cccxviii. f. D. (1781) (Amboina).

1 ♂, 1 ♀, Wahai, North Ceram; 1 ♂, Manusela, Central Ceram, 650 m., 1912.

348. *Ascotis margarita* Warr.

Ascotis margarita Warren, *Nov. Zool.* i. p. 435 (1894) (West Java).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

349. *Elphos hymenaria pallida* subsp. nov.

♀. Differs from *h. hymenaria* Guen. in being larger, in the basal two-thirds of forewing being much whiter, and in the whole hindwing having fewer dark markings.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

350. *Noreia albifimbria* Warr.

Noreia albifimbria Warren, *Nov. Zool.* iv. p. 206 (1897) (Celebes).

1 ♂, Wahai, North Ceram.

351. *Gonaphaga cinnamomaria* sp. nov.

♂, Antennae pale cinnamon, pectinations ash-grey; head, thorax, and abdomen pale cinnamon.

Forewing: pale cinnamon, very sparingly freckled with rusty brown; a number of brown striae on costa, a widely interrupted antemedian row of brown spots, a median band rusty brown, a postmedian band of round blackish brown dots, a subterminal larger and two terminal smaller brown spots below apex.

Hindwing: pale cinnamon; antemedian rusty brown band, and a median band of blackish-brown dots.

Length of forewing: 21 mm.

Expanse: 46 mm.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

352. *Tephрина normata* Walk.

Tephрина normata Walker, *List Lepid. Ins. Brit. Mus.* xxiii. p. 966 (1861) (Moreton Bay).

2 ♀ ♀, Kintamani, Bali, 4000 feet, February—March 1911.

353. *Dysphania militaris abrupta* (Walk.)

Euschema abrupta Walker, *Trans. Entom. Soc. Lond.* (3) i. p. 70 (1859) (Assam).

1 ♂, Buleleng, North Bali, January—April 1911; 1 ♀, Bali, 1912.

354. *Dysphania numana* (Cram.)

Phalaena numana Cramer, *Pap. Erot.* iii. pt. xix. p. 59. pl. cccxvii. f. A. (1779) (Amboina).

1 ♂, Wahai, North Ceram.

355. *Dysphania cyane* (Cram.)

Phalaena cyane Cramer, *Pap. Exot.* iii. pt. xxiii. p. 137. pl. cclxvii. f. D. (1780) (Amboina).

1 ♂, 2 ♀♀, Maunsela, Central Ceram, 650 m., 1912; 1 ♀, Kanike, North Ceram, 600 m., 1912; 1 ♀, Wahai, North Ceram.

Larentiinae356. *Sauris ceramica* sp. nov.

♀. Antennae grey-brown; head and thorax ash-grey freckled with white; abdomen buffish grey.

Forewing: dirty white; a postbasal dark mouse-grey band preceded by a spot on vein 1, beyond this band a number of paler grey slightly sinuate lines, a median dark mouse-grey band widening below cell to three times its width in and above cell, from the wide portion of median band branch off three almost contiguous narrow bands to costa, beyond which are a number of alternate light and darker grey transverse sinuate lines, a terminal row of quadrate black spots.

Hindwing: wood-grey.

Length of forewing: 17 mm.

Expanse: 37 mm.

1 ♀, Maunsela, Central Ceram, 650 m., 1912.

Hemitheinae357. *Acolachroma suffusa* (Warr.)

Actenochroma prasina ab. *suffusa* Warren, *Nov. Zool.* iii. p. 283 (1896) (Fergusson Isl.).

1 ♀, Manusela, Central Ceram, 650 m., 1912.

358. *Anisozyga absona* (Warr.)

Anisogamia absona Warren, *Nov. Zool.* iii. p. 287 (1896) (Fergusson Isl.).

1 ♂, Misol.

359. *Ornithospila submonstrans* (Walk.)

Geometra submonstrans Walker, *List Lepid. Ins. Brit. Mus.* xxii. p. 526 (1861) (Sarawak).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

360. *Comibaena subornataria* sp. nov.

♂. This species comes close to *ornataria* Leech. Antennae white, pectinations pale olive-green; head white, thorax white, tegulae and four spots on hinder part of thorax apple-green; abdomen white, last three segments buff.

Forewing: apple-green; apical three-fourths of costa white, a curved and bent white antemedian line from the upper angle of which runs a short white streak to a black stigma and from the lower angle of which runs a longer white bar above vein 1 to postmedian line, a postmedian white line which widens suddenly from vein 2 to inner margin into a quadrate white patch reaching termen and tornus; in the middle of this patch is a black-brown irregular patch, an angled white subterminal

line from costa to half-way between veins 3 and 4, touching termen at apex and half-way between veins 3 and 4.

Hindwing: apple-green, somewhat strigillated with white; a postdiscal zigzag white line widening out suddenly to termen as a large blotch between vein 4 and costa; in this white blotch is an irregular mauve-brown patch.

Length of forewing: 16 mm.

Expanse: 36 mm.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

Oenochrominae

361. *Derambila melagonata* (Walk.)

Zanclopteryx melagonata Walker, *List Lepid. Ins. Brit. Mus.* xxvi. p. 1619 (1862) (Ceram).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

362. *Derxena nivea nivea* (Kirsch)

Acidalia nivea Kirsch, *Mitth. Mus. Dresd.* p. 134. pl. vii. f. 10 (1877) (New Guinea).

1 ♂, Misol.

363. *Celerena lerne* (Boisd.)

Callimorpha lerne Boisduval, *Voy. Astrolabe Léop.* p. 207. pl. v. f. 2 (1832) (New Guinea).

4 ♂♂, 4 ♀♀, Misol.

364. *Celerena mutata* Walk.

Celerena mutata Walker, *List Lepid. Ins. Brit. Mus.* xxxi. p. 167 (1864) (Misol).

2 ♂♂, Misol.

365. *Celerena connexa* Walk.

Celerena connexa Walker, *l.c.* p. 168 (Amboina).

11 ♂♂, 6 ♀♀, Manusela, Central Ceram, 650 m., 1912.

366. *Eumelia rosalia rosalia* (Cram.)

Phalaena rosalia Cramer, *Pap. Exot.* ix. pt. xxxi. p. 152. pl. ccelviii. f. F. (1781) (Amboina).

1 ♂, Manusela, Central Ceram, 650 m., 1912; 1 ♂, 1 ♀, Ceram.

367. *Eumelia aureliata* Guen.

Eumelia aureliata Guenée, *Hist. Nat. Ins. Sp. Gén. Léop.* ix. *Ur. & Phal.* i. p. 394. No. 631. pl. 22. f. 6 (1857) (Ceylon).

1 ♂, Wabai, North Ceram; 1 ♀, Misol.

URANIIDAE

368. *Alcidis orontes* (Johan.)

Papilio orontes Johansson, *Auoen. Acad.* vi. p. 402. No. 51 (1763) (in Indiis).

4 ♂♂, Manusela, Central Ceram, 650 m., 1912; 1 ♀, Wabai, North Ceram; 1 ♂, 1 ♀, Ceram; 1 ♂, Bara, N.W. Buru.

369. *Alcidis aruus* Feld.

Alcidis aruus Felder, *Reise Novara* ii. pt. ii. pl. 121. f. 1 (1875) (Aru Islds.).

The type of *A. aruus* Feld. is a ♀ collected by Lorquin, and agrees well with the ♂ and smaller ♀ collected by Dr. Tauern. The large ♀ sent by Dr. Tauern is very distinct, and might even be considered a good species if I had not received some ♂♂ among Dr. Wollaston's Snow Mts. collection, one of which is identical with this Misol ♀, while others are more or less intermediate between the latter and *aruus*. A ♀ without locality in the Felder collection agrees entirely with this larger Misol ♀.

This ♀ differs from typical ♀ *aruus* in its much larger size, in the blue-black, **not** green-black, ground colour, and in the fascii of the forewing and disc of hindwing being clear turquoise-blue, **not** strongly suffused with golden-green. I propose for this insect the name ab *coerulea* ab. nov.

1 ♂, 1 ♀ and 1 ♀ ab. *coerulea*, Misol.

370. *Nyctalemon patroclus* (Linn.)

Papilio patroclus Linnaeus, *Mus. Ludov. Ultric.* p. 204 (1764) (Amboina).

2 ♂♂, Manusela, Central Ceram, 650 m., 1912.

371. *Acropteris striataria* (Clerck)

Phalaena striataria Clerck, *Icones Ins. Rar.* t. 55. f. 4 (1759) (Amboina?).

3 ♀♀, Manusela, Central Ceram, 650 m., 1912; 1 ♂, Wahai, North Ceram.

372. *Acropteris inchoata* (Walk.)

Micronia inchoata Walker, *List Lepid. Ins. Brit. Mus.* xxvi. p. 1624 (1862) (Misol).

1 ♂, Misol.

373. *Acropteris obliquaria* (Moore)

Micronia obliquaria Moore, *Proc. Zool. Soc. Lond.* 1877. p. 622. pl. lx. f. 17 (S. Andamans).

2 ♂♂, Manusela, Central Ceram, 650 m., 1912.

374. *Micronia fuscifimbria major* subsp. nov.

♂. Differs from *f. fuscifimbria* Warr., in being much larger, and in the markings being less distinct.

Length of forewing: 28 mm.

Expanse: 60 mm.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

375. *Micronia aculeata responsaria* Walk.

Micronia responsaria Walker, *List Lepid. Ins. Brit. Mus.* xxiii. p. 823 (1861) (Celebes).

1 ♂, 3 ♀♀, Manusela, Central Ceram, 650 m., 1912.

COSSIDAE**Zeuserinae**376. *Duomitus hyphinoë* (Cram.)

Phalaena hyphinoë Cramer, *Pap. Exot.* ii. pt. xiii. p. 91. pl. cliv. f. B. (1777) (Amboina).

1 ♂, 1 ♀, Manusela, Central Ceram, 650 m., 1912.

LASIOCAMPIDAE377. *Taragama castanea pallida* subsp. nov.

♀. Much paler than *c. castanea* Swinh.

1 ♀, Bali, 1912.

CALLIDULIDAE378. *Cleis evander* (Cram.)

Papilio evander Cramer, *Pap. Exot.* iv. pt. xxviii. p. 83. pl. cccxxxi. ff. F. G. (1780) (Côte de Guinée!)

A most variable species.

6 ♂♂, 12 ♀♀, Manusela, Central Ceram, 650 m., 1912; 1 ♀, Waihai, North Ceram; 1 ♂, Kanike, North Ceram, 600 m., 1912.

379. *Cleis dichroa* (Boisd.)

Damias dichroa Boisduval, *Voy. Astrolabe Lépid.* p. 260 (1832) (New Guinea).

1 ♀, Misol.

380. *Tyndaris erycinata* (Walk.)

Callidula erycinata Walker, *List Lepid. Ins. Brit. Mus.* xxxi. p. 60. (1864) (Dorey).

4 ♂♂, Misol.

THYRIDIDAE**Thyridinae**381. *Rhodoneura fallax* (Warr.)

Pharabura fallax Warren, *Ann. Mag. Nat. Hist.* (6) xviii. p. 229 (1896) (New Guinea).

9 ♂♂, 10 ♀♀, Manusela, Central Ceram, 650 m., 1912.

382. *Rhodoneura myrtea plagifera* (Butl.)

Microsa plagifera Butler, *Trans. Entom. Soc. Lond.*, 1866, p. 420 (Tonga Island).

1 ♀, Misol.

Hyblaeinae383. *Hyblaea vasa* Swinh.

Hyblaea vasa Swinhoe, *Ann. Mag. Nat. Hist.* (7) xi. p. 506 (1903) (Fergusson).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

PYRALIDAE

Crambinae

384. *Chilo parramattellus* Meyr.

Chilo parramattellus Meyrick, *Proc. Linn. Soc. N.S.W.* iii. p. 178 (1878) (New South Wales).

2 ♂♂, Manusela, Central Ceram, 650 m., 1912.

385. *Chilo suppressalis* (Walk.)

Crambus suppressalis Walker, *List Lepid. Ins. Brit. Mus.* xxvii. p. 166 (1863) (Shanghai).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

Endotrichinae

386. *Cotachena histricalis orientalis* Rothsch.

Cotachena histricalis orientalis Rothschild, *Lepid. B.O.U. & Woll. Exped.* p. 117. No. 644 (1915) (Snow Mts.).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

Pyralinae

387. *Vitessa zemire* (Cram.)

Phalaena zemire Cramer, *Pap. Exot.* iv. pt. xxxi. p. 149. pl. 367. f. I. (1781) (Amboina).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

Hydrocampinae

388. *Nymphula foedalis scitalis* (Led.)

Hydrocampa scitalis Lederer, *Wien. Entom. Mon.* vii. p. 451 (1863) (Amboina).

1 ♂, Misol.

389. *Aulacodes stresemanni* sp. nov.

♂ ♀. Antennae amber-brown, closely ringed with white; head buffish cream; thorax white, tips of patagia buffish; abdomen white, anal tuft buffish.

Forewing: basal half, with exception of costal area, obliquely silvery white, a broad oblique band running basad from cell orange edged with dark chocolate outwardly; apical half and costal area orange, a large somewhat triangular patch in this half, white edged with a chocolate hair line, a silver subterminal band edged with chocolate, terminal line black.

Hindwing: white; outer two-ninths orange edged inwardly with black, a subterminal silver band edged for the greater part with black, five terminal black spots.

Length of forewing: ♂ 10 mm., ♀ 11.5 mm.

Expanse: ♂ 22 mm., ♀ 25 mm.

3 ♂♂, 3 ♀♀, Manusela, Central Ceram, 650 m., 1912.

390. *Aulacodes fuscicostalis* sp. nov.

♀. Antennae amber-yellow, base white; head and thorax buff; abdomen above buff, sides white.

Forewing: deep orange; costal area sooty black, upper part of cell and across discocellulars sooty black, rest of cell and an oblique patch beyond discocellulars white, a white subterminal band, widely edged with sooty black, a terminal line of black dots.

Hindwing: white; base, abdominal area, and outer one-third orange, a black line inside the orange border, and a row of double black spots along termen, the two upper enclosing white spots.

Length of forewing: 10 mm.

Expanse: 22 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

391. *Bradina modestalis* (Led.)

Eritia modestalis Lederer, *Wien. Entom. Mon.* vii, p. 426, pl. 16, f. 3 (1863) (Amboina).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

392. *Bradina ceramica* sp. nov.

♂. Antennae amber-yellow; head, thorax, and abdomen whitish mixed with buff.

Forewing: golden brownish bronze; a large patch occupying almost the whole centre of basal half and a patch in basal portion of outer half below subcostal semihyaline pale yellow.

Hindwing: basal two-thirds semihyaline pale yellow, outer one-third golden brownish bronze.

Length of forewing: 13 mm.

Expanse: 28.5 mm.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

393. *Piletocera violalis* Led.

Piletocera violalis Lederer, *Wien. Entom. Mon.* vii, p. 431 (1863) (Amboina).

1 ♀, Manusela, Central Ceram, 650 m., 1912.

Pyraustinae394. *Entephria jaguaralis* (Guen.)

Spilomela jaguaralis Guenée, *Hist. Nat. Ins. Spec. Gén. Léop.* viii, *Delt. et Pyr.* p. 283 (1854) (?).

1 ♀, Manusela, Central Ceram, 650 m., 1912.

395. *Zinckenia fascialis* (Cram.)

Phalaena fascialis Cramer, *Pap. Exot.* iv, part xxxiv, p. 236, pl. cccxcvii, f. O. (1782) (Japan).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

396. *Marasmia sordidalis* sp. nov.

♂ ♀. Antennae amber-brown; head and thorax dull wood-brown; abdomen basal half whitish, outer half dark wood-brown.

Forewing: wood-brown; basal two-thirds below cell paler more whitish wood-brown, an antemedian and postmedian line darker wood-brown, as is a stigma in cell.

Hindwing: basal three-fifths whitish, outer two-fifths wood-brown, a stigma and postmedian line darker wood-brown.

Length of forewing: ♂ 9 mm., ♀ 11 mm.

Expanse: ♂ 21 mm.; ♀ 25 mm.

1 ♂, 1 ♀, Mannsela, Central Ceram, 650 m., 1912.

397. *Syngamia floridalis* (Zell.)

Stenia floridalis Zeller, *Lepid. Micr. Caff.* p. 60 (1852) (Natal).

2 ♂♂, Mannsela, Central Ceram, 650 m., 1912.

398. *Samea trimaculalis extensalis* subsp. nov.

♂. Differs from *tr. trimaculalis* Kenr. in the subbasal white spots being larger and more elongated.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

399. *Bocchoris manuselalis* sp. nov.

♂. Antennae yellowish brown; head buff, a black spot on vertex; thorax and abdomen buff.

Forewing: buff; basal two-thirds with two yellow bands and numerous transverse lines, spots, and rings of deep umber-brown, outer one-third with two very broad bands and portions of termen deep umber-brown.

Hindwing: buff; two incomplete curved bands on disc, a subterminal very broad band and fringe deep umber-brown.

Length of forewing: 9.5 mm.

Expanse: 22 mm.

1 ♂, Mannsela, Central Ceram, 650 m., 1912.

400. *Bocchoris onychinalis* (Guen.)

Asopia onychinalis Guenée, *Hist. Nat. Ins. Spec. Gén. Lép.* viii. *Delt. et Pgr.* p. 205. No. 158. (1854) (Côte de Coromandel).

4 ♂♂, Manusela, Central Ceram, 650 m., 1912.

401. *Filodes fulvidorsalis* (Hübner.)

Pinacia fulvidorsalis Hübner, *Zutrüge Exot. Schmett.* iv. p. 15. ff. 643, 644 (1832) (Java).

1 ♂, 2 ♀♀, Manusela, Central Ceram, 650 m., 1912.

402. *Nevrina procopia* (Cramer.)

Phalaena procopia Cramer, *Pap. Exot.* iv. part xxxi. p. 152. pl. cccclxviii. f. E. (1781) (Amboina).

1 ♀, Manusela, Central Ceram, 650 m., 1912.

403. *Dichocrocis nigrilinealis* (Walk.)

Botys nigrilinealis Walker, *List Lepid. Ins. Brit. Mus.* xxxiv. p. 1410 (1865) (Sula Islands).

1 ♂, 1 ♀, Manusela, Central Ceram, 650 m., 1912.

404. *Dichocrocis clicialis* (Walk.)

Astura (?) clicialis Walker, *List Lepid. Ins. Brit. Mus.* xviii. p. 549 (1859) (Sarawak).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

405. *Glyphodes indica* (Saundl.)

Eudiotis indica Saunders, *Trans. Entom. Soc. Lond.* 1851. p. 163. pl. 12. ff. 5, 6, 7 (Java).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

406. *Glyphodes suralis* (Led.)

Chloauges suralis Lederer, *Wien. Entom. Mon.* vii. p. 405. pl. 14. f. 9. (1863) (Amboina).

1 ♀, Misol.

407. *Glyphodes glauculalis* (Guen.)

Margarodes glauculalis Guenée, *Hist. Nat. Ins. Spec. Gén. Léop.* viii. *Dét. et Pgr.* p. 306. No. 325 (1854) (?).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

408. *Glyphodes conjunctalis* Walk.

Glyphodes conjunctalis Walker, *List Lepid. Ins. Brit. Mus.* xxxiv. p. 1357 (Sula Islands).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

409. *Glyphodes conclusalis* Walk.

Glyphodes conclusalis Walker, *List Lepid. Ins. Brit. Mus.* xxxiv. p. 1354 (1865) (India).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

410. *Glyphodes analagoalis* sp. nov.

♂. Very similar to *caesalis* and *assimilis*, but larger than *caesalis*, and the outer two-fifths of both wings much darker.

Differs from *assimilis* in having the first three orange transverse bands of *forewing* broader and with much narrower black edges; the amalgamated post-median and postdisical bands are sooty fulvous, **not** orange, and more clouded with sooty black-brown. On *hindwing* median band is broad and distinct, and outer one-third of wing strongly clouded and suffused with black-brown.

Length of forewing: 15 mm.

Expanse: 34 mm.

1 ♂, Manusela, Central Ceram, 650 m., 1912.

411. *Polythlipta globulipedalis* (Walk.)

Glyphodes globulipedalis Walker, *List Lepid. Ins. Brit. Mus.* xxxiv. p. 1359 (1865) (New Guinea).

2 ♂♂, Manusela, Central Ceram, 650 m., 1912.

412. *Psara licarsilalis immundalis* (Walk.)

Botys immundalis Walker, *List Lepid. Ins. Brit. Mus.* xxxiv. p. 1448 (1865) (Java).

1 ♂, Manusela, Central Ceram, 650 m., 1912.

413. *Noorda subrufalis* sp. nov.

♀. Antennae amber-yellow, head and thorax cinnamon-amber-brown variegated with white; abdomen cinnamon-amber-brown ringed on basal half with white.

Forewing: basal three-fifths pale mouse-grey, outer three-fifths of costal area and below it sooty black-brown; a double black and white band borders the mouse-grey from inner margin to vein 3, a large wedge-shaped brick-red patch from inner margin to vein 7, outside this from vein 4 to subcostal is a double zigzag line, inside yellow, outside brick-red; a broad subterminal band of bright mauve, a terminal line of alternate buff and rufous spots.

Hindwing: three-quarters of costal, one-third of wing buff, two-thirds of rest pale mouse-grey followed by a curved and angled buffy yellow line; a large brick-red patch from vein 1-6, a subterminal broad band bright mauve, a terminal line of alternate buff and rufous spots; fringe of both wings golden-yellow.

Length of forewing: 8 mm.

Expanse: 18 mm.

1 ♀, Manusela, Central Ceram, 650 m., 1912.

414. *Pyrausta cajelalis fortioralis* subsp. nov.

♂. Differs from *c. cajelalis* Holl. in being larger and darker, and the bands of spots are stronger and more pronounced.

1 ♂, Manusela, Central Ceram, 650 m., 1912.
